# NPN Silicon RF power transistor MRF429

**Description:**
MRF429 is designed primarily for high–voltage applications as a high–power linear amplifier from 2.0 to 30 MHz. Ideal for marine and base station equipment.

**Features:**
Specified 50 Volt, 30 MHz Characteristics:
Output Power = 150 W (PEP), Minimum Gain = 13 dB, Efficiency = 45%

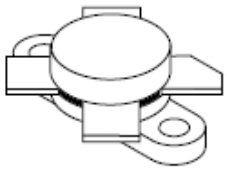
**Maximum Ratings at $T_U$ = 25℃**

| Symbol | Test Conditions | Characteristics | | Units |
|---|---|---|---|---|
| BVCES | IC=30 mA | Max. | 100 | V |
| BVCEO | IC=60 mA | Max. | 60 | V |
| BVEBO | IE=20 mA | Max. | 4 | V |
| IC | | Max. | 16 | A |
| Ptot | | Max. | 320 | W |
| TSTG | | Min. | -65 | ℃ |
| | | Max. | 150 | ℃ |
| TjM | | Max. | 200 | ℃ |

Characteristics at $T_U$ = 25℃ ( VCC =50 V f=30 MHz )

| Symbol | Test Conditions | Characteristics | | Units |
|---|---|---|---|---|
| Pout | | Typ. | 150PEP | W |
| GP | | Typ. | 14 | dB |
| η | | Typ. | 45 | % |
| hFE | IC = 2A VCE =10V | Typ. | 50 | |
| VCEsat | IC = 8A IB =1.6A | Max. | 2 | V |
| ICES | VCE =50V | Max. | 20 | mA |
| CCBO | VCB =50V | Typ. | 300 | pF |
| d3 | | Max. | ＜-30 | dB |

**Drawings:**



**CASE211/SOT121**